2004 Groundwater Monitoring Results and Plan for 2005 Monitoring Event

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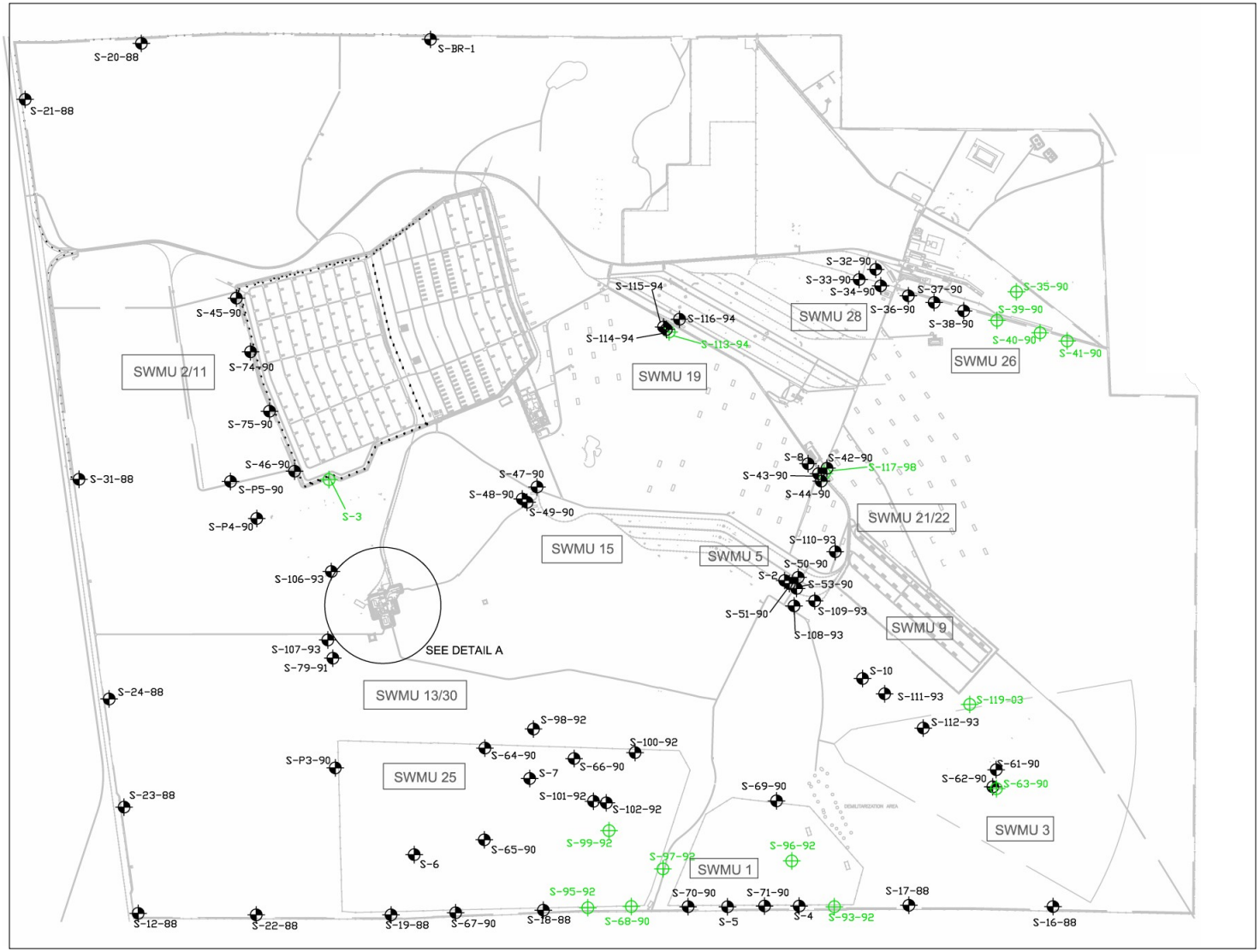
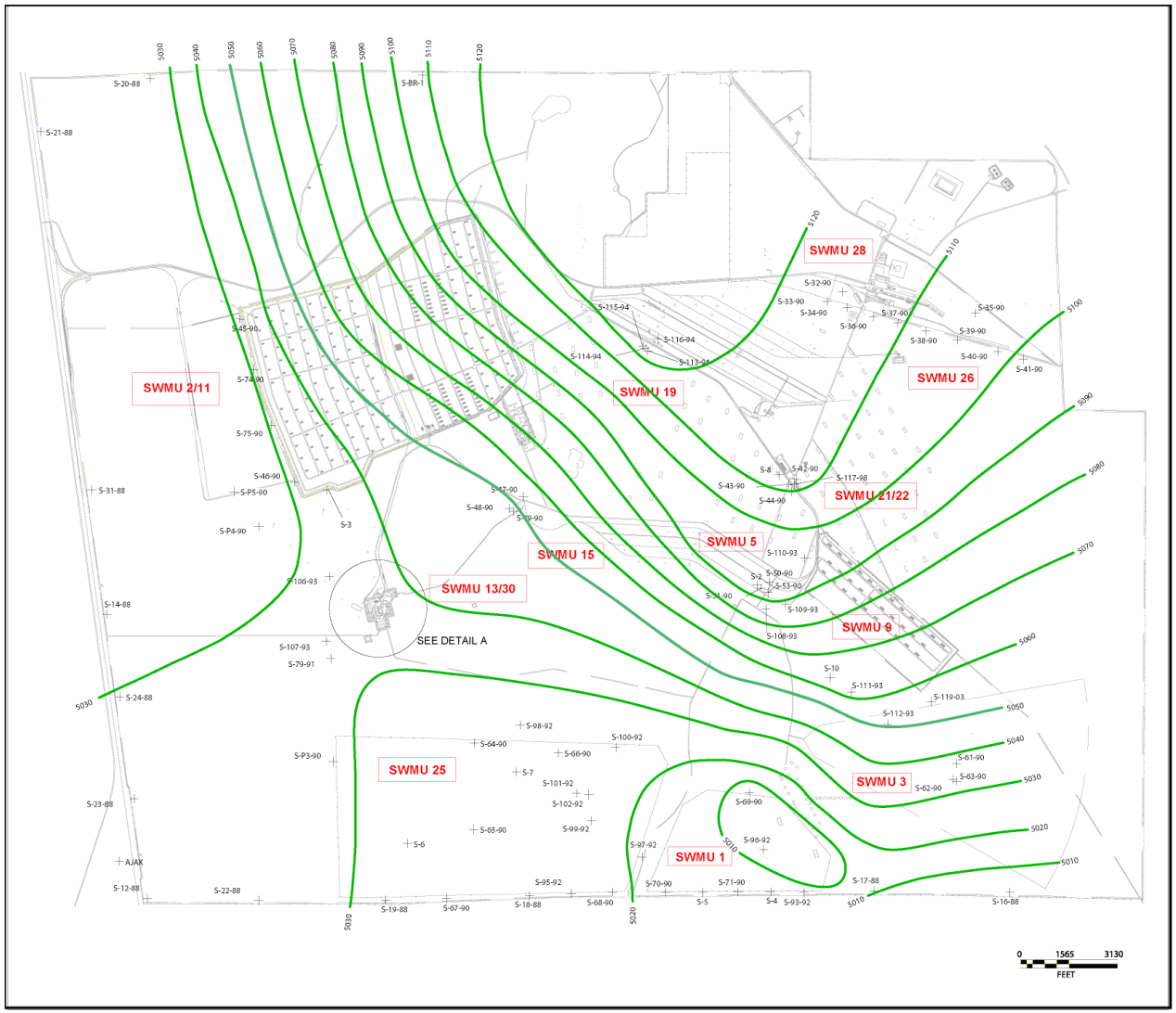
2004 - DCD Monitoring Summary

- **Scope of Work**
  - Conduct 2004 Annual Groundwater Monitoring and Sampling to:
    - Measure groundwater levels in 113 monitoring wells
    - Collect analytical samples and measure bottom depths in 16 monitoring wells
    - Present the results in Draft and Final Reports

Monitoring Well Locations



Groundwater Elevation Contours



Annual Sampling Program

- Wells sampled within these SWMUs
  - SWMUs 13/30, 25, and 26 - *organics detected*
  - SWMUs 1, 2/11, 3, 9, 19, and 21/22 – *no organics detected*
- Terms used
  - MCL Maximum contaminant level
  - VOC Volatile organic compound
  - SVOC Semivolatile organic compound
  - TPH-d Total petroleum hydrocarbons as diesel
  - IMPA Chemical agent breakdown product
  - 1,1,1-TCA Industrial solvent used in metal cleaning

2004 Results and 2005 Plan

SWMU 13/30

- **2004 results –** One well sampled
  - Sampled for these compounds: VOCs, TPH-d, and agent breakdown compounds (including IMPA)
  - Only IMPA (866 µg/L) and TPH-diesel (138 µg/L) exceeded reporting limits. IMPA was a new detection below reporting limit (value estimated by laboratory); TPH-d was similar to previous years' results.
  - Measured floating petroleum product present in two wells (thickness = 0.39 ft. & 2.21 ft.)
- **Proposed 2005 sampling**
  - Continue current program (one well) and measure thickness of petroleum product at two wells

2004 Results and 2005 Plan

SWMU 19

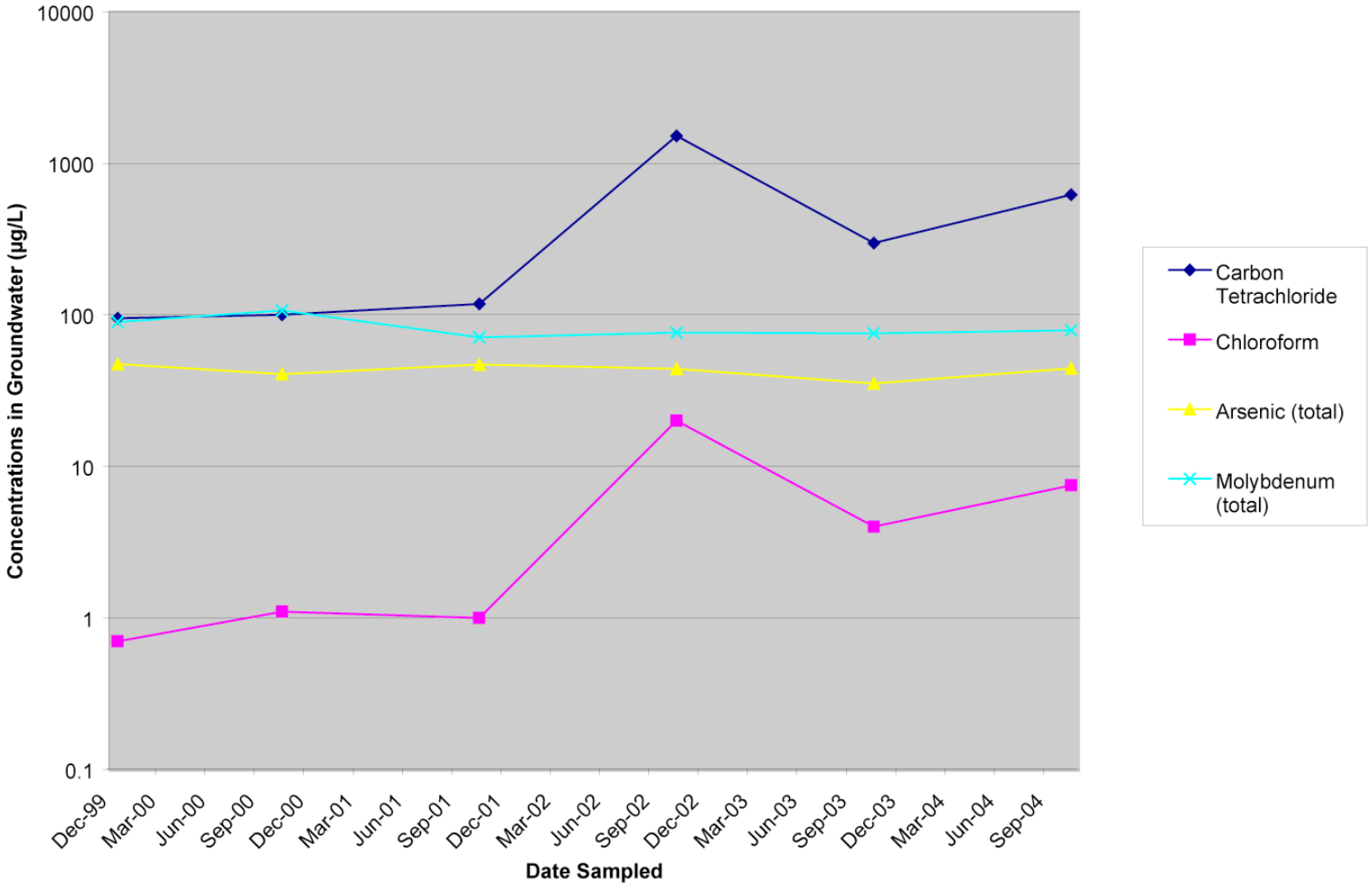
- **2004 results –** One well sampled
  - No detections exceeding primary MCLs (sampled for 9 metals); results generally similar for filtered (dissolved) and unfiltered (total) metals samples
  - No detections of organics (explosives, VOCs, or SVOCs)
- **Proposed 2005 sampling**
  - Recommend removal of the one well from sampling program based on remediation of site in 2004, and lack of significant detections in recent years' sampling events

2004 Results and 2005 Plan

SWMU 25

- **2004 results –** Four wells sampled
  - Carbon tetrachloride detected in well S-99-92 at 620 µg/L
    – an increase compared with 2003 result of 298 µg/L
    (MCL=5 µg/L)
  - Chloroform detected in same well at 7.5 µg/L (MCL=100 µg/L)
  - No other VOCs detected
  - Dissolved arsenic concentrations exceeded the MCL of
    50 µg/L at three wells (S-68-90, S-95-92, and S-97-92); generally similar to results from

Historic Trends at S-99-92 in SWMU 25



2004 Results and 2005 Plan

SWMU 25 (cont'd)

- **Proposed 2005 sampling/investigation**
  - Continue current program (four wells)
  - Investigate extent of carbon tetrachloride near well S-99-92

2004 Results and 2005 Plan

SWMU 26

- **2004 results –** Four wells sampled
  - VOCs: 1,1,1-TCA detected at 5.1 µg/L, below the primary MCL of 200 µg/L
  - SVOCs: bis(2-ethylhexyl)phthalate (a plasticizer) detected at one well at 11 µg/L, above the MCL of 6 µg/L
- **Proposed 2005 sampling**
  - Continue current program (four wells)

2004 Results and 2005 Plan

SWMUs 1, 2/11, 3, 9, 21/22

- **2004 findings:** Six wells sampled
  - No detections for the organic compounds analyzed
  - Several detections among metals, all of which were at relatively low concentrations, below maximum contaminant levels (MCLs)
- **Proposed 2005 sampling**
  - Continue current program (five wells) at SWMUs 1, 2/11, 3, and 9
  - Recommend removal of the SWMU 21/22 well from sampling program, based on remediation performed in 2004 and lack of significant detections in recent years

QUESTIONS?